

# 40/90/140/180 KVA AC Ground Power Unit



## VICTORY GSE

A DIVISION OF VICTORY SALVAGE INC.



- Highly reliable Deutz / Cummins / Detroit Diesel / Equivalent Diesel Engines.
- Digital System - PLC based
  - Field tested proven system.
  - Ensured safety to Aircraft.
  - Operations through GUI touch screen
  - Total Digital Monitoring of engine and output parameters.
- Remote fault Diagnosis - Standard Scope.
- Meets latest EPA norms.
- Walk Away - Protection and Control (Unattended Operation)
- Low Noise level.
- Meets MIL and ARP Standards.
- Online tracking / monitoring system (Optional)

**The most reliable Aircraft GSE on earth from AIR+MAK**

**Rated Output** : 40/ 90 / 140 / 180 KVA at 0.8 PF Lagging

**Engine** : Deutz / Cummins / Detroit Diesel / Equivalent diesel engine

**Alternator** : MAK / Equivalent brushless, 3 phase, constant voltage alternator with built in AVR.

Insulation : Class F / H

## AC OUTPUT

Power : 40 / 90 / 140 / 180 KVA at 0.8 pf lagging, 3 phase 4 wire system.

Voltage : 115V (Line to Neutral) and 200V (Line to Line).

Voltage unbalance : a. 1% at balanced load.  
b. Within 4% with 1/3rd load on one phase with two other phases unloaded.

Voltage regulation :  $\pm 1\%$

Voltage modulation :  $\pm 0.5\%$

Voltage transient :  $\pm 20\%$  and  $\pm 1\%$  of steady state value recovery within 150 milli seconds.

Phase difference :  $120 \pm 1.50^\circ$

Frequency : 400 Hz

Freq. regulation :  $\pm 1\%$

Freq. modulation :  $\pm 0.25\%$

Freq. transient : 382 to 417 Hz,  $\pm 1\%$  of steady state value recovery within 2 seconds.

Crest Factor :  $1.41 \pm 0.07$

Total harmonic content : Within 2%

## Monitoring

Following parameters are displayed through GUI touch screen.

- Engine Lube oil pressure
- Engine Coolant temperature
- Engine RPM
- Fuel Level
- Engine Hours run
- Battery voltage
- Output voltage
- Output frequency
- Load current

## PROTECTIONS

### A. For Engine

- Low lube oil pressure shutdown
- High coolant temperature shutdown
- Over speed shutdown
- Low fuel shutdown
- Charge fail (only indication)

### B. For Output

- Under voltage trip
- Over voltage trip
- Over load trip
- Neutral open trip
- Phase rotation trip
- Under frequency shutdown
- Over frequency shutdown

## OTHER COMBINATIONS (Both on Diesel & A.C. Motor Driven)

☞ 40 KVA AC or AC & DC

☞ 140 KVA AC or AC & DC

☞ 60 KVA AC or AC & DC

☞ 180 KVA AC or AC & DC

☞ 90 KVA AC or AC & DC

\* Due to continuous development, the dimensions, layout, configuration and specifications are subject to change without notice.

Note : For more details, Please contact us.

## VICTORY GSE

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